

REMARKS

Favorable reconsideration of this application as presently amended is respectfully requested. Claims 2-8 and 11 are pending. Claim 1 is canceled and claims 2-8 are amended. No new matter is added.

Claims 1-8 and 11 are rejected under 35 U.S.C. § 112, second paragraph. The Examiner is thanked for pointing out the specific objectionable language. Claim 1 has been canceled and claims 2-8 have been amended to comply with the requirements of 35 U.S.C. § 112, second paragraph and to more distinctly define the subject matter of the present invention. Thus, the rejection under § 112 has been obviated and should be withdrawn.

Claim 1 is rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 5,798,249 to Braxton. Claim 1 is also rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,309,644 to Chandreshkar. Claim 1 is also rejected under 35 U.S.C. § 102(b) as being anticipated by Ryser (PNAS 91, 4559, 1994). Claim 1 is also rejected under 35 U.S.C. § 102(b) as being anticipated by Morjana (Biochem 30, 4985, 1997). These rejections are obviated by the cancellation of claim 1.

Since the § 112 rejection of claims 1-8 and 11 has been obviated and there are no pending rejections of claims 2-8 and 11, the allowance of claims 2-8 and 11 is respectfully requested.

Serial Number: 09/424,181

If the Examiner has any questions or concerns regarding the present response, the Examiner is invited to contact Steven J. Prewitt at 703-591-2664. In view of the foregoing, it is respectfully submitted that this application is in condition for allowance, and favorable action is respectfully solicited.

Respectfully submitted,



Steven J. Prewitt
Reg. No. 45,023

JAGTIANI + GUTTAG
Democracy Square Business Center
10379-B Democracy Lane
Fairfax, Virginia 22030
(703) 591-2664

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
ROGELJ *et al.*)
Serial Number: 09/424,181)
Filed: November 10, 1999)
For: INHIBITION OF CELL SURFACE PROTEIN)
DISULFIDE ISOMERASE)

Examiner: Lukton, D.

Art Unit: 1653

Docket No.: UNME-0054-1

JUN 26 2002

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Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

VERSION WITH MARKINGS TO SHOW CHANGES MADE

Sir:

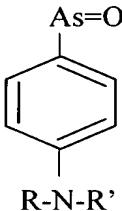
Below are the amendments in the accompanying Amendment for the above-identified application shown in redlined format:

IN THE CLAIMS

Please cancel claim 1, without prejudice or disclaimer.

Please amend the claims, without prejudice or disclaimer, as indicated below:

2. (Amended) An membrane-impermeable inhibitor of protein disulfide isomerase (PDI) according to Claim 1 of having the formula:



wherein at least one of R and R' is a charged ligand containing from 1 to 6 carbon atoms.

3. (Amended) An inhibitor according to Claim 2, wherein the charged ligand contains at least one sulfonate SO₃⁻ group.

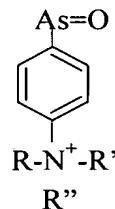
4. (Amended) An inhibitor according to Claim 2, wherein the ligand is a straight chain or branched alkyl group containing 1, 3, 4, or 6 carbon atoms and at least one SO_3^- sulfonate group.

5. (Amended) An inhibitor according to Claim 2, wherein the ligand is an aryl group containing at least one SO_3^- sulfonate group.

6. (Amended) The inhibitor of Claim 5, wherein the SO_3^- sulfonate group is attached to a ring carbon atom.

7. (Amended) The inhibitor of Claim 6, wherein the SO_3^- sulfonate group is attached to the ring carbon atom via a C_1 - C_6 -alkylene group.

8. (Amended) An membrane-impermeable inhibitor of protein disulfide isomerase (PDI) according to claim 1 of having the formula:



wherein R is H or alkyl.

11. An inhibitor according to Claim 2, wherein one of R or R' is an uncharged H or C_1 - C_6 -alkyl ligand.